Utilities (domain)

DOMAIN NAME archeology - significance

DEFINITION Discipline associated with a particular archeological discovery

VALUE	DEFINITION
AGRICULTURE	agriculture
ARCHEO_01	archeology/prehistoric
ARCHEO_02	archeology/historic/aboriginal
ARCHEO_03	archeology/historic/neoaboriginal
ARCHITECTURE	architecture
ART	art
COMMERCE	commerce
COMMPLANNING	community planning and develop
COMMUNICATE	communications
CONSERVATION	conservation
ECONOMICS	economics
EDUCATION	education
ENGINEERING	engineering
ENTERTAINREC	entertainment/recreation
ETHNIC_01	ethnic heritage - Asian
ETHNIC_02	ethnic heritage - Black
ETHNIC_03	ethnic heritage - European
ETHNIC_04	ethnic heritage - Hispanic
ETHNIC_05	ethnic heritage - Native America
ETHNIC_06	ethnic heritage - Pacific Island
ETHNIC_07	ethnic heritage - other
HISTEXPLORER	historic exploration
HISTORSETTLE	historic settlement
HUMANITARIAN	humanitarian
INDUSTRY	industry

Utilities (domain)

INVENTION	invention
LANDSCAPE	landscape architecture
LAW	law
LITERATURE	literature
MARITIME	maritime history
MEDICINE	medicine/health
MILITARY	military
PERFORMARTS	performing arts
PHILOSOPHY	philosophy
POLITICSGOV	politics/government
RELIGION	religion/religious articles
SCIENCE	science
SOCIALHISTRY	social history
TBD	to be determined
TRANSPORTATN	transportation
UNKNOWN	other/unknown/not applicable

DOMAIN NAME code list - manufacture

DEFINITION Allowable manufacturers code list.

VALUE	DEFINITION
ALCOA	Aluminum Company of America
GE	General Electric
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME code list - states

DEFINITION The abbreviations of all of the states.

VALUE	DEFINITION
AK	Alaska

Utilities (domain)

AL	Alabama
AR	Arkansas
AZ	Arizona
CA	California
CO	Colorado
CT	Connecticut
DC	District of Columbia
DE	Delaware
FL	Florida
GA	Georgia
HI	Hawaii
IA	Iowa
ID	Idaho
IL	Illinois
IN	Indiana
KS	Kansas
KY	Kentucky
LA	Louisiana
MA	Massachusetts
MD	Maryland
ME	Maine
MI	Michigan
MN	Minnesota
MO	Missouri
MS	Mississippi
MT	Montana
NC	North Carolina
ND	North Dakota

Utilities (domain)

NE	Nebraska
NH	New Hampshire
NJ	New Jersey
NM	New Mexico
NV	Nevada
NY	New York
OH	Ohio
OK	Oklahoma
OR	Oregon
OTHER	other
PA	Pennsylvania
RI	Rhode Island
SC	South Carolina
SD	South Dakota
TBD	to be determined
TN	Tennessee
TX	Texas
UNKNOWN	unknown
UT	Utah
VA	Virginia
VT	Vermont
WA	Washington
WI	Wisconsin
WV	West Virginia
WY	Wyoming

DOMAIN NAME condition list - pole

DEFINITION Allowable input for the condition of a pole or tower.

VALUE	**DEFINITION**

CRACKED	cracked but useable
FAIR	fair condition
GOOD	good condition
OTHER	other
SPLINTER	splintered but useable
TBD	to be determined
UNUSEABLE	unuseable

DOMAIN NAME condition list - rock strength

DEFINITION Allowable input values for condition list of rock strengths

VALUE	DEFINITION
HIGH	high dry strength/toughness
LOW	low dry strength/toughness
MEDIUM	medium dry strength/toughness
NONE	very weak, no strength, probably should class as soil
OTHER	other
TBD	to be determined
UNKNOWN	unknown
VERYHIGH	very high dry strength/toughness

DOMAIN NAME condition list - soil consistncy

DEFINITION Allowable input values for condition list of soil consistencies

VALUE	DEFINITION
FIRM	firm
HARD	hard
MEDIUMFIRM	medium firm
OTHER	other
SOFT	soft
TBD	to be determined
UNKNOWN	unknown

VERYHARD	very hard
VERYSOFT	very soft

DOMAIN NAME cultural - historic value

DEFINITION Historical import as a result of modifications made to a historic building/structure or area.

VALUE	DEFINITION
HIGH	high-minor modifications made
HIGHEST	highest-major historical import
INTRUSION	intrusion
MEDIUM	medium-major modifications made
MINOR	minor-little/no historic import

DOMAIN NAME cultural - impact

DEFINITION Local impact of cultural considerations.

VALUE	DEFINITION
AGRICULTURE	agriculture
BIOTURBATION	bioturbation
COMBINED	combined effects, more than one
CRYOTURBATION	cryoturbation
ENVIRONMENTAL	environmental
EXCAVATION	channel/canal excavation
HISTORICAL	historical
INDUCED_EROSION	project induced erosion
INTACT	intact
INUNDATED	inundated
MARITIME	maritime
MINERAL_IND	mineral industry
NATURAL_EROSION	natural erosion
OIL_AND_GAS	oil and gas industry
OTHER_CONST	other construction

OTHER_NATURAL	other natural
PASTURE	pasture
RAILROAD_CONST	railroad construction
ROAD_CONST	road construction
SPOIL_PILE	spoil pile
SUBSIDENCE	subsidence
TBD	to be determined
TIMBER_INDUSTRY	timber industry
UNKNOWN	unknown
URBAN_DEVELOP	urban development
VANDALISM	vandalism

DOMAIN NAME cultural - national regis consid

DEFINITION Allowable input values for list of cultural national registration considerations

VALUE	DEFINITION
BIRTHPLACE	birthplace
COMMEMORATIVE	commemorative property
GRAVE	grave
RECONSTRUCTED	reconstructed structure
RELIGION	religion associated
REMOVED	removed from original location
UNDER_50_YRS	less than fifty (50) years and achieved significant

DOMAIN NAME cultural - national regis criter

DEFINITION Allowable input values for list of cultural national registration criteria

VALUE	DEFINITION
A	crit. a - significant event
B	crit. b - significant person
C	crit. c - architecture,art,engineering
D	crit. d - date recovery potential

NA	not applicable - resource not eligible
NCL	resource considered eligible w/no criteria listed

DOMAIN NAME cultural - national regis status

DEFINITION Allowable input values for list of cultural national registration status

VALUE	DEFINITION
ELIGIBLE	determined eligible (SHPO determination)
LISTED	listed
NATLANDMARK	national landmark
NATUSRELIGN	native american religious site
NOMINATED	nominated
NOTELIGIBLE	not eligible (SHPO determination)
PARTOFNRHP	part of NRHP district
PENDINGNOMIN	pending nomination
RECOMMENDNO	recommended ineligible (recorders recommendation)
RECOMMENDYES	recommended eligible (recorders recommendation)
REMOVEDELIGB	removed from eligible listing
REMOVEDNRHP	removed from NRHP, NHL listing
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME dimension list - electric cable

DEFINITION Allowable input used to define an electrical cable dimension.

VALUE	DEFINITION
#1/0	#1/0
#10	#10
#14	#14
#16	#16
#18	#18
#19	#19

#2/0	#2/0
#20	#20
#22	#22
#24	#24
#26	#26
#28	#28
#3/0	#3/0
#30	#30
#32	#32
#34	#34
#36	#36
#4/0	#4/0
0.375	3/8 inch
0.5	0.5 inch
0.75	0.75 inch
0_375	3/8 inch
0_5	0.5 inch
0_75	0.75 inch
1	1 inch
1.25	1.25 inches
1.5	1.5 inches
1_25	1.25 inches
1_5	1.5 inches
1000_MCM	1000 K circular mils
1033.5_MCM	1033.5 K circular mils, ACSR
1113_MCM	1113 K circular mils, ACSR
12	12 inches
1272_MCM	1272 K circular mils, ACSR

1431_MCM	1431 K circular mils, ACSR
1590_MCM	1590 K circular mils, ACSR
2	2 inches
2.5	2.5 inches
2_5	2.5 inches
2156_MCM	2156 K circular mils, ACSR
250_MCM	250 K circular mils
266.8_MCM	266.8 K circular mils, ACSR
3	3 inches
3.5	3.5 inches
3_5	3.5 inches
300_MCM	300 K circular mils
336.4_MCM	336.4 K circular mils, ACSR
336_MCM	336 K circular mils
350_MCM	350 K circular mils
397.5_MCM	397.5 K circular mils, ACSR
4	4 inches
400_MCM	400 K circular mils
477_MCM	477 K circular mils
477_MCM_A	477 K circular mils, ACSR
5	5 inches
500_MCM	500 K circular mils
556.5_MCM	556.5 K circular mils, ACSR
556_5_MCM_A	556.5 K circular mils, ACSR
6	6 inches
600_MCM	600 K circular mils
636_MCM	636 K circular mils
636_MCM_A	636 K circular mils, ACSR

7	7 inches
700_MCM	700 K circular mils
750_MCM	750 K circular mils
795_MCM_A	795 K circular mils, ACSR
8	8 inches
800_MCM	800 K circular mils
9	9 inches
900_MCM	900 K circular mils
954_MCM_A	954 K circular mils, ACSR
BITTERN	1272 K circular mils, ACSR,45/7
BLUEBIRD	2156 K circular mils, ACSR,84/19
BLUEJAY	1113 K circular mils, ACSR,45/7
BOBOLINK	1431 K circular mils, ACSR,45/7
CARDINAL	954 K circular mils, ACSR,54/7
CHICKADEE	397.5 K circular mils, ACSR,18/1
DOVE	556.5 K circular mils, ACSR,26/7
DRAKE	795 K circular mils, ACSR,26/7
FALCON	1590 K circular mils, ACSR,54/19
FINCH	1113 K circular mils, ACSR,54/19
FLICKER	477 K circular mils, ACSR,24/7
GROSBEAK	636 K circular mils, ACSR,24/7
HAWK	477 K circular mils, ACSR,26/7
HEN	477 K circular mils, ACSR,30/7
IBIS	397.5 K circular mils, ACSR,26/7
LAPWING	1590 K circular mils, ACSR,45/7
LINNET	336.4 K circular mils, ACSR,26/7
MERLIN	336.4 K circular mils, ACSR,18/1
N1	#1

N1_0	#1/0
N10	#10
N12	#12
N14	#14
N16	#16
N18	#18
N19	#19
N2	#2
N2_0	#2/0
N20	#20
N22	#22
N24	#24
N26	#26
N28	#28
N3	#3
N3_0	#3/0
N30	#30
N32	#32
N34	#34
N36	#36
N4	#4
N4_0	#4/0
N5	#5
N6	#6
N8	#8
ORIOLE	336.4 K circular mils, ACSR,30/7
ORTOLAN	1033.5 K circular mils,45/7
OSPREY	556.5 K circular mils, ACSR,18/1

OSTRICH	300 K circular mils, ACSR,26/7
OTHER	other
PARAKEET	556.5 K circular mils, ACSR,24/7
PARTRIDGE	556.5 K circular mils, ACSR,26/7
PELICAN	266.8 K circular mils, ACSR,18/1
PHEASANT	477 K circular mils, ACSR,54/19
PLOVER	1272 K circular mils, ACSR,54/19
RAIL	1431 K circular mils, ACSR,45/7
ROOK	954 K circular mils, ACSR,24/7
TBD	to be determined
TERN	795 K circular mils, ACSR,45/7
UNKNOWN	unknown
WAXWING	266.8 K circular mils, ACSR,18/1

DOMAIN NAME discriminator - electric cable

DEFINITION Discriminator - Values that differentiate installed location of electrical cable.

VALUE	DEFINITION
ABANDONED	abandoned/inactive
PRIMARY_OH	primary overhead
PRIMARY_UG	primary underground
SECONDARY_OH	secondary overhead
SECONDARY_UG	secondary underground
SERVICE_OH	service overhead
SERVICE_UG	service underground

DOMAIN NAME discriminator - electric manhole

DEFINITION Discriminator - Values that differentiate the type of utility connection.

VALUE	DEFINITION
HANDHOLE	handhole
JUNCTION_BOX	junction box

MANHOLE	manhole
PULL_BOX	pull box

DOMAIN NAME discriminator - electric switch

DEFINITION Discriminator - Values that differentiate the type of electric switch.

VALUE	DEFINITION
CIRCUIT_BRKR	circuit breaker
CUBICLE	installed in a cubicle.
FUSE_CUTOUT	fuse cutout
GANG_DISC	gang operated disconnect
POLE_MOUNTED	mounted on pole or tower
RECLOSER	reclosure

DOMAIN NAME discriminator - electric tranbnk

DEFINITION Discriminator - Values that differentiate the mount location of an electrical transformer bank.

VALUE	DEFINITION
PAD_MOUNTED	pad mounted transformer bank
POLE_MOUNTED	pole mounted transformer bank

DOMAIN NAME discriminator - external light

DEFINITION Various kinds of mounts for external lights.

VALUE	DEFINITION
FLOOD_LIGHT	Lights designed to flood an area with light, as in the case of an athletic field.
POLE_MOUNT	Lights mounted on poles
STREET_LIGHT	Lights specifically designed to illuminate the street below.
WALK_LIGHT	Normally a low mounted light designed to illuminate a walkway or beside a driveway.

DOMAIN NAME discriminator - fire connection

DEFINITION Discriminator - Values that differentiate the type of fire department connection.

VALUE	DEFINITION
FIRE_CONNECT	fire department connection
FIRE_HYDRANT	fire hydrant

DOMAIN NAME discriminator - fuel manhole

DEFINITION Discriminator - Values that differentiate the type of utility connection.

VALUE	DEFINITION
HYDRANT_PIT	hydrant control pit
JUNCTION_BOX	junction box
MANHOLE	manhole
TEST_BOX	test box
VALVE_PIT	valve pit
VENT_PIT	vent pit

DOMAIN NAME discriminator - fuel pipe

DEFINITION Discriminator - Values that differentiate the general use of a fuel pipe.

VALUE	DEFINITION
ABANDONED	abandoned/inactive pipe
DEFUELING	defueling line
MAIN	main line
SERVICE	building/facility service
VENT	vent line

DOMAIN NAME discriminator - future structure

DEFINITION Various status of structures which are yet to be built or are under construction.

VALUE	DEFINITION
FUTURE_DEV	Structural definition and status of a planned building or future development of an existing building.
UNDER_CONST	Structural definition and status of a building under construction.

DOMAIN NAME discriminator - gas pump sta

DEFINITION Discriminator - Values that differentiate the type of natural gas pump station.

VALUE	DEFINITION
BOOSTER	booster station
PRESS_REDUCE	pressure reducer station
PUMP	pump station

DOMAIN NAME discriminator - gas valve

DEFINITION Discriminator - Values that differentiate the type of natural gas valves.

VALUE	DEFINITION
DRIP_POT	drip pot
TAP	line tap
VALVE	valve

DOMAIN NAME discriminator - gas/wat fitting

DEFINITION Discriminator - Various fitting types for Water and Natural Gas systems.

VALUE	DEFINITION
CAP	pipe cap
CROSS	pipe cross
TEE	pipe tee

DOMAIN NAME discriminator - h/c manhole

DEFINITION Discriminator - Values that differentiate the type of utility connection.

VALUE	DEFINITION
MANHOLE	manhole
VALVE_PIT	valve pit

DOMAIN NAME discriminator - hcs anchor

DEFINITION Discriminator - Values that differentiate the type of anchor used to control expansion of pipes in a central heating and cooling distribution system.

VALUE	DEFINITION
GUIDE_ANCHOR	guide anchor
RIGID_ANCHOR	rigid anchor

DOMAIN NAME discriminator - hcs fitting

DEFINITION Various kinds of fittings included in Heating and Cooling Systems.

VALUE	DEFINITION
CAP	pipe cap
FLANGE	pipe flange

REDUCER	pipe reducer

DOMAIN NAME discriminator - hcs pipe

DEFINITION Discriminator - Values that differentiate the use of central heating and cooling distribution system piping.

VALUE	DEFINITION
ABANDONED	Abandoned/inactive hcs-water line.
CHW_M	Chilled Water Main: water less than 45 deg. F.
CHW_S	Chilled Water Service: water less than 45 deg. F.
HTW_M	High Temperature Water Main: water greater that 250 deg. F
HTW_S	High Temperature Water Service: water greater that 250 deg. F
LTW_M	Low Temperature Water Main: water less than 250 deg. F.
LTW_S	Low Temperature Water Service: water less than 250 deg. F.
RETURN	return line
S_M	Steam Main
S_S	Steam Service

DOMAIN NAME discriminator - hcs plant

DEFINITION Discriminator - Values that differentiate the type of energy plant.

VALUE	DEFINITION
CHILLING_PLANT	chill water plant
HEATING_PLANT	high temp, low temp, and/or steam plant

DOMAIN NAME discriminator - hydrant

DEFINITION Discriminator - Values that differentiate the type of hydrant.

VALUE	DEFINITION
FAUCET	faucet
HYDRANT	hydrant
SPRINKLER	sprinkler head

DOMAIN NAME discriminator - ind wast manhole

DEFINITION Discriminator - Values that differentiate the type of utility connection.

VALUE	DEFINITION

JUNCTION_BOX	junction box
MANHOLE	manhole

DOMAIN NAME discriminator - inlets

DEFINITION Discriminator - Values that differentiate the type of storm water inlet.

VALUE	DEFINITION
CURB_INLET	curb opening inlet
DROP_INLET	drop inlet
SURFACE_LINEAR	surface linear

DOMAIN NAME discriminator - installation

DEFINITION Discriminator - Values that differentiate the type of an installation

VALUE	DEFINITION
ABANDONED	abandoned
OVERHEAD	overhead
UNDERGROUND	underground

DOMAIN NAME discriminator - nat gas manhole

DEFINITION Discriminator - Values that differentiate the type of utility connection.

VALUE	DEFINITION
JUNCTION_BOX	junction box
MANHOLE	manhole
VALVE_PIT	valve pit
VENT_PIT	vent pit

DOMAIN NAME discriminator - natural gas pipe

DEFINITION Discriminator - Allowable input values for natural gas pipe use.

VALUE	DEFINITION
ABANDONED	abandoned line
MAIN	main line
SERVICE	service line
VENT	vent line

DOMAIN NAME discriminator - open channel

DEFINITION Discriminator - Values that differentiate the type of open drainage.

VALUE	DEFINITION
OPEN_DRAINAGE	The channel is part of an unaltered drainage system
PAVED_DITCH	The channel has a concrete or other paved surface
UNPAVED_DITCH	The channel has no constructed or prepared surface

DOMAIN NAME discriminator - pipe

DEFINITION Discriminator - Values that differentiate the general use of a pipe.

VALUE	DEFINITION
ABANDONED	abandoned/inactive pipe
MAIN	main line
SERVICE	building/facility service

DOMAIN NAME discriminator - pole

DEFINITION Discriminator - Values that differentiate type of pole configuration.

VALUE	DEFINITION
DOUBLE_POLE	double pole
POLE	pole
RISER_POLE	riser pole
TOWER	tower

DOMAIN NAME discriminator - pump sta

DEFINITION Discriminator - Values that differentiate the type of wastewater pump station.

VALUE	DEFINITION
BOOSTER	booster station
PUMP	pump station

DOMAIN NAME discriminator - regulator

DEFINITION Discriminator of allowable regulator types.

VALUE	DEFINITION

REDUCER	reducer
REGULATOR	regulator

DOMAIN NAME discriminator - storm manhole

DEFINITION Discriminator - Values that differentiate the type of utility connection.

VALUE	DEFINITION
JUNCTION_BOX	junction box
MANHOLE	manhole

DOMAIN NAME discriminator - structure status

DEFINITION Discriminator - Values that differentiate the management status or class of a building.

VALUE	DEFINITION
DEMOLITION	Structural definition and status of a building slated for demolition.
PERMANENT	Structural definition and status of a permanent building.
PORTABLE	Structural definition and status of a portable building.
SEMI-PERM	Structural definition and status of a semi-permanent building.
SEMI_PERM	Structural definition and status of a semi-permanent building.
TEMPORARY	Structural definition and status of a temporary building.

DOMAIN NAME discriminator - tower use

DEFINITION Discriminator - Allowable input values for the primary tower use.

VALUE	DEFINITION
CONTROL	A tower structure that is primarily used by an airport for air traffic control, etc.
FIRE	A tower structure that is primarily used to spot and manage forest fires, wildlife, etc.
OBSERVATION	A tower structure that is primarily used by the Armed Forces for observation of military exercises, equipment testing, tourism, etc.
TRAINING	A tower structure that is primarily used by the Armed Forces for jump training, rapelling, and training range management, etc.

DOMAIN NAME discriminator - utility guy

DEFINITION Discriminator - Values that differentiate the type of pole guy.

VALUE	DEFINITION
DOWN_GUY	down guy

SPAN_GUY	span guy

DOMAIN NAME discriminator - valve

DEFINITION Discriminator - Values that differentiate the types of water valves.

VALUE	DEFINITION
BACKFLOW	backflow preventer
POSTINDICATOR	post indicator gate valve
TAP	line tap
VALVE	valve

DOMAIN NAME discriminator - waste fitting

DEFINITION Various kinds of Storm Sewer, Waste, and Industrial Waste fittings.

VALUE	DEFINITION
CAP	pipe cap
CLEANOUT	pipe cleanout

DOMAIN NAME discriminator - waste manhole

DEFINITION Discriminator - Values that differentiate the type of utility connection.

VALUE	DEFINITION
DISTRIB_BOX	distribution box
JUNCTION_BOX	junction box
MANHOLE	manhole

DOMAIN NAME discriminator - waste meter

DEFINITION Discriminator - Values that differentiate the type of waste water meter.

VALUE	DEFINITION
METER	meter
PARSHALL_FLUME	parshall flume meter

DOMAIN NAME discriminator - wastewater pump

DEFINITION Various kinds or types of wastewater pumps and stations.

VALUE	DEFINITION

EJECTOR	ejector system
PUMP	pump station

DOMAIN NAME discriminator - wastewater tank

DEFINITION Discriminator - Values that differentiate the type of wastewater tank.

VALUE	DEFINITION
DISPOSAL	disposal tank
SEPTIC_TANK	septic tank

DOMAIN NAME discriminator - water manhole

DEFINITION Discriminator - Values that differentiate the type of utility connection.

VALUE	DEFINITION
JUNCTION_BOX	junction box
MANHOLE	manhole
VALVE_PIT	valve pit

DOMAIN NAME discriminator - water pipe

DEFINITION Discriminator - Values that differentiate the general use of a water pipe.

VALUE	DEFINITION
ABANDONED	abandoned/inactive pipe
FIRE	fire protection
MAIN	main line
RAW_WATER	raw water line
SERVICE	building/facility service
SPRINKLER	sprinkler head

DOMAIN NAME disposition list - object

DEFINITION Allowable input for the disposition of an object

VALUE	DEFINITION
ABANDONED	abandoned in place (not in use)
INCOMPLETE	incomplete or unfinished
OTHER	other

PERMANENT	permanent
PROPOSED	proposed
TBD	to be determined
TEMPORARY	temporary
UNKNOWN	unknown

DOMAIN NAME hydrography - bank armor lining

DEFINITION Types of bank or bed armor lining in a waterway or a still body of water.

VALUE	DEFINITION
ASPHALT	asphalt
CEMENTD_STONE	cemented stones
CONCRETE_LINED	concrete lined
DUMP_BRICK_CONC	dumped brick and concrete
DUMPED_ROCK	dumped rocks
FORMEDLINING	formed channel lining
GABIONS	gabions
OTHER	other
PILEDIKE	pile dike
PLACED_STONE	placed stone
SAND_CEMNBGRR	sand cement/bag riprap
TBD	to be determined
UNKNOWN	unknown
WILLOW_MAT	willow mat

DOMAIN NAME hydrography - bed material

DEFINITION Types of material found in the bed of a waterway or a still body of water.

VALUE	DEFINITION
AQUATCWEED	aquatic weed
CEMENTED_STONE	cemented stones
CLAY	clay

CONCRETE_LINED	concrete lined
CRSAND_GRAVEL	coarse sand and gravel
EXPOSED_ROCK	exposed rock
FINE_SAND	fine sand
GRASSED	grassed
GRAVEL_STONE	gravel to larger stone
ORGANIC_MUD	organic mud
OTHER	other
PLACED_STONE	placed stone
TBD	to be determined
UNDERBRUSH	underbrush
UNKNOWN	unknown

DOMAIN NAME hydrography - drainage density

DEFINITION Classification of the density of a hydrographic drainage pattern.

VALUE	DEFINITION
COARSE	coarse
FINE	fine
MEDIUM	medium
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME hydrography - drainage pattern

DEFINITION Types of hydrographic drainage patterns due to climatic, soil, and geologic conditions.

VALUE	DEFINITION
ANGULATE	angulate
ANNULAR	annular
ARTIFICIAL	artificial
BARBED	barbed

Utilities (domain)

BRAIDED	braided
CENTRIPETAL	centripetal
COMPLEX	complex
COMPOUND	compound
CONTORTED	contorted
DENDRITANAST	dendritic anastomotic
DENDRITDISTR	dendritic distributary (dichotomic)
DENDRITPINNT	dendritic pinnate
DENDRITSUBDN	dendritic subdendritic
DERANGED	deranged
INTERNAL	internal
MULTIBSKARST	multibasinal karst
MULTIBSTHERM	multibasinal thermokarst
MULTIELNGBAY	multibasinal elongate bay
MULTIGLACLDS	multibasinal glacially disturbed
NODEVLSYSTEM	no developed system
OTHER	other
PALIMPSEST	palimpsest
PARLLCOLINER	parallel colinear
PARLLSUBPARL	parallel subparallel
PINNATE	pinnate
RADILCENTRIP	radial centripetal
RECTANGLARAN	rectangular angulate
TBD	to be determined
TRELISUBTREL	trellis subtrellis
TRELSDIRECTN	trellis directional
TRELSFAULT	trellis fault
TRELSJOINT	trellis joint

TRELSRECURVE	trellis recurved
UNKNOWN	unknown

DOMAIN NAME hydrography - drainage zone

DEFINITION Local name of assigned hydrographic drainage zones.

VALUE	DEFINITION
MERLIN	Merlin Drainage District
OTHER	other
TBD	to be determined
UNKNOWN	unknown
ZONE_1	zone 1

DOMAIN NAME material list - anodes

DEFINITION Allowable input values for anode material types.

VALUE	DEFINITION
AL	aluminum
CI	cast iron
GR	graphite
MG	magnesium
OTHER	other
TBD	to be determined
UNKNOWN	unknown
ZN	zinc

DOMAIN NAME material list - electric bus

DEFINITION Allowable material values for an electric bus.

VALUE	DEFINITION
ALUMINUM	aluminum metal
COPPER	copper metal
OTHER	other
TBD	to be determined

UNKNOWN	unknown

DOMAIN NAME material list - electric cable

DEFINITION Allowable material values for electric cable.

VALUE	DEFINITION
AL	Al
ALUM_ALLOY	Al, alloy
ALUM_ANOD	Al, anodized
ALUM_COPPER	Al, Cu coated
ALUM_STEEL	Al, steel reinforced
COPPER	Cu
COPPER_ALLOY	Cu, alloy
COPPER_ALUM	Cu, Al coated
COPPER_LEAD	Cu, Pb coated
COPPER_NICKEL	Cu, Ni coated
COPPER_STEEL	Cu, steel coated
COPPER_TIN	Cu, tinned
FIBER_OPT	fiber optical
IRON	Fe
IRON_ALLOY	Fe, alloy
IRON_GALV	Fe, galvanized
LEAD	Pb
LEAD_COPPER	Pb, Cu
LEAD_IRON	Pb, Fe
LEAD_STEEL	Pb, steel
OTHER	other
STEEL	steel
STEEL_AL_CLAD	steel, Al clad
STEEL_CU_CLAD	steel, Cu clad

STEEL_GALV	steel, galvanized
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME material list - pipe

DEFINITION Allowable material values for pipe.

VALUE	DEFINITION
ABS	acrylonitrile butadiene styrene
AL	Aluminum
ASBESTCEMENT	asbestos cement
BLACK_FE	black iron
BRICK	brick
CASTIRON	cast iron
CEMENT	cement
COATWRAPSTEL	coated and wrapped steel
CONCRETE	concrete
CORR_METAL	corrugated metal
CORR_STEEL	corrugated steel
CORRALBITMEN	corrugated Aluminum with bituminous coating
CORRALPAVINV	corrugated Aluminum with paved invert
CORRMETLBITM	corrugated metal with bituminous coating
CORRMETPAVIN	corrugated metal with paved invert
CORRSTELBITM	corrugated steel with bituminous coating
CORRSTELPAVI	corrugated steel with paved invert
CORRUGATEDAL	corrugated Aluminum
CRESOTEDWOOD	creosoted wood
CU	Copper
DUCTILEFE	ductile iron
FIBER	fiber

FIBERGLASS	fiberglass
GALVANIZEDFE	galvanized iron
GALVNIZSTEEL	galvanized steel
GLASS	glass
HELIWOUND	helically wound
INSULATCONCR	insulating concrete
METAL	metal conduit
MULTIPLECLAY	multiple clay
MULTIPLETILE	multiple tile
OTHER	other
OTHERMASONRY	other
PLASTIC	plastic
POLYETHYLENE	polyethylene
POLYSTYRENE	polystyrene
PRECAST	precast
PRESTRESSED	prestressed
PVC	polyvinyl chloride
REINFORCONCR	reinforced concrete
REINFPLASMOR	reinforced plastic mortar
SINGLE_CLAY	single clay
SINGLE_TILE	single tile
STEEL	steel
STEEL_WRAPED	steel wrapped
STONE	stone
TBD	to be determined
TERRACOTTA	terra cotta
TILE_RESIN	tile resin
UNKNOWN	unknown

VITRIFIDCLAY	vitrified clay
WROUGHT_FE	wrought iron

DOMAIN NAME material list - pole

DEFINITION Allowable material values for poles and towers.

VALUE	DEFINITION
AL	Aluminum
CEMENT	cement
COMBINATION	combination of materials
CONCRETE	concrete
FIBERGLASS	fiberglass
GLASS	glass
OTHER	other
PLASTIC	plastic
REINFORCONCR	reinforced concrete, metal rods
STEEL	steel
TBD	to be determined
UNKNOWN	unknown
WOOD	wood

DOMAIN NAME method list - equipment cooling

DEFINITION Allowable method values for cooling equipment.

VALUE	DEFINITION
AIR	air
FAN	fan
OIL	oil
OILAIR	oil and air (OA)
OILAIRFAN	oil, air, and fan (FA)
OTHER	other
REFRIGERATE	refrigeration units

TBD	to be determined

DOMAIN NAME name list - country

DEFINITION Names of local counties

VALUE	DEFINITION
CANADA	Canada
MEXICO	Mexico
OTHER	other
TBD	to be determined
USA	United States of America

DOMAIN NAME name list - fuel source

DEFINITION Allowable input values for fuel sources.

VALUE	DEFINITION
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME name list - gas source

DEFINITION Allowable input values for natural and bottle gas sources.

VALUE	DEFINITION
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME name list - laboratory

DEFINITION Names of testing and analysis laboratories.

VALUE	DEFINITION
LAW_ENG	Law Engineering
LAW_ENV	Law Environmental
OTHER	other
TBD	to be determined

UNKNOWN	unknown
WES	Waterways Experiment Station

DOMAIN NAME name list - lagoon

DEFINITION Allowable input for a lagoon name

VALUE	DEFINITION
5	lagoon #5
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME name list - owner

DEFINITION Allowable input values for an owner name

VALUE	DEFINITION
BCE	Base Civil Engineer
DPWE	Directorate of Public Works and Environement
GA_P	Georgia Power
MISS_P_L	Mississippi Power and Light
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME name list - reservoir

DEFINITION Allowable input values for reservoir names

VALUE	DEFINITION
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME name list - treatment plant

DEFINITION Allowable input values for treatment plant names.

VALUE	DEFINITION

OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME name list - water source

DEFINITION Allowable input values for names of water sources.

VALUE	DEFINITION
ART_WELL_7	Artisan Well #7
FEDERALES	Arroyo Federales
LAFOUCHE	Bayou LaFouche
MAGEES_CREEK	Magees Creek
OTHER	other
TBD	to be determined
TYLERTOWN	Tylertown Wellfield
UNKNOWN	unknown

DOMAIN NAME project - status

DEFINITION Various status result of projects.

VALUE	DEFINITION
ACTIVE	active - project in progress
CANCELLED	project cancelled terminated
COMPLETED	project completed
INACTIVE_PIN	active - project permanently halted
INACTIVE_TIN	active - project termporarily halted
PROPOSED	proposed project
TBD	to be determined

DOMAIN NAME size list - ductbank

DEFINITION Allowable input values for ductbank size.

VALUE	DEFINITION
NA	not applicable

TBD	to be determined
UNK	unknown

DOMAIN NAME soils - erosion K

DEFINITION The susceptibility of the soil to erosion

VALUE	DEFINITION
0.02	0.02
0.05	0.05
0.10	0.10
0.17	0.17
0.20	0.20
0.24	0.24
0.28	0.28
0.32	0.32
0.37	0.37
0.43	0.43
0.49	0.49
0.55	0.55
0.64_OR_MORE	0.64 or more
0_02	0.02
0_05	0.05
0_10	0.10
0_17	0.17
0_20	0.20
0_24	0.24
0_28	0.28
0_32	0.32
0_37	0.37
0_43	0.43

Utilities (domain)

0_49	0.49
0_55	0.55
0_64_OR_MORE	0.64 or more
TBD	to be determined
UNKNOWN	unk

DOMAIN NAME soils - family

DEFINITION Scientific taxonomic classification of the soil

VALUE	DEFINITION
ALTAVISTA	fine-loamy, mixed, thermic Aquic Hapludults
AUTRYVILLE	loamy, siliceous, thermic Arenic Paleudults
AYCOCK	fine-silty, siliceous, thermic Typic Paleudults
BLANEY	loamy, siliceous, thermic Arenic Hapludults
BRAGG	fine-loamy, siliceous, acid, thermic Typic Udorthents
BUTTERS	coarse-loamy, siliceous, thermic Typic Paleudults
BYARS	clayey, kaolinitic, thermic Umbric Paleaquults
CANDOR	sandy, siliceous, thermic Arenic Paleudults
CAPEFEAR	clayey, mixed, thermic Typic Umbraquults
CHEWACLA	fine-loamy, mixed, thermic Fluvaquentic Dystrochrepts
COXVILLE	clayey, kaolinitic, thermic Typic Paleaquults
CRAVEN	clayey, mixed, thermic Aquic Hapludults
CROATAN	loamy, siliceous, dysic, thermic Terric Medisaprists
DELOSS	fine-loamy, mixed, thermic Typic Umbraquults
DOGUE	clayey, mixed, thermic Aquic Hapludults
DOTHAN	fine-loamy, siliceous, thermic Plinthic Paleudults
DUNBAR	clayey, kaolinitic, thermic Aeric Paleaquults
DUPLIN	clayey, kaolinitic, thermic Aquic Paleudults
DYSTROCHREPT	loamy, thermic Dystrochrepts
EXUM	fine-silty, siliceous, thermic Aquic Paleudults

FACEVILLE	clayey, kaolinitic, thermic Typic Paleudults
FUQUAY	loamy, siliceous, thermic Arenic Plinthic Paleudults
GILEAD	clayey, kaolinitic, thermic Aquic Hapludults
GOLDSBORO	fine-loamy, siliceous, thermic Aquic Paleudults
GRANTHAM	fine-silty, siliceous, thermic Typic Paleaquults
JOHNSTON	coarse-loamy, siliceous, acid, thermic Cumulic Humaquepts
KALMIA	fine-loamy over sandy or sandy skeletal, siliceous, thermic Typic Hapludults
KENANSVILLE	loamy, siliceous, thermic Arenic Hapludults
KUREB	thermic, uncoated Spodic Quartzipsamments
LAKELAND	thermic, coated Typic Quartzipsamments
LENOIR	clayey, mixed, thermic Aeric Paleaquults
LEON	sandy, siliceous, thermic Aeric Haplaquods
LYNCHBURG	fine-loamy, siliceous, thermic Aeric Paleaquults
LYNNHAVEN	sandy, siliceous, thermic Typic Haplaquods
MCCOLL	clayey, kaolinitic, thermic Typic Fragiaquults
NAHUNTA	fine-silty, siliceous, thermic Aeric Paleaquults
NORFOLK	fine-loamy, siliceous, thermic Typic Paleudults
OTHER	other
PACTOLUS	thermic, coated Aquic Quartzipsamments
PANTEGO	fine-loamy, siliceous, thermic Umbric Paleaquults
RAINS	fine-loamy, siliceous, thermic Typic Paleaquults
ROANOKE	clayey, mixed, thermic Typic Ochraquults
STALLINGS	coarse-loamy, siliceous, thermic Aeric Paleaquults
TARBORO	mixed, thermic Typic Udipsamments
TBD	to be determined
TORHUNTA	coarse-loamy, siliceous, acid, thermic Typic Humaquepts
UNKNOWN	unknown
VAUCLUSE	fine-loamy, siliceous, thermic Typic Hapludults

WAGRAM	loamy, siliceous, thermic Arenic Paleudults
WAHEE	clayey, mixed, thermic Aeric Ochraquults
WICKHAM	fine-loamy, mixed, thermic Typic Hapludults
WOODINGTON	coarse-loamy, siliceous, thermic Typic Paleaquults

DOMAIN NAME soils - texture

DEFINITION Soil texture and composition.

VALUE	DEFINITION
BOLDGRAVEL	boulder gravel
CLAY	clay
CLAYLOAM	clay loam
COARSANDYLOM	course sandy loam
COARSESAND	coarse sand
COARSESILT	coarse silt
CORSCOBLGRAV	coarse cobble gravel
CORSPBLGRAVL	coarse pebble gravel
FINCOBLGRAV	fine cobble gravel
FINEPBLGRAVL	fine pebble gravel
FINESAND	fine sand
FINESANDYLOM	fine sandy loam
FINESILT	fine silt
GRAVEL	gravel
LOAM	loam
LOAMCOARSAND	loamy course sand
LOAMFINESAND	loamy fine sand
MEDCOBLGRAVL	medium cobble gravel
MEDIUMSAND	medium sand
MEDIUMSILT	medium silt
MEDPEBLGRAVL	medium pebble gravel

OTHER	other
PERMAFROST	permafrost
SANDYCLAY	sandy clay
SANDYCLAYLOM	sandy clay loam
SANDYLOAM	sandy loam
SILTYCLAY	silty clay
SILTYLOAM	silty loam
SLITYCLAYLOM	silty clay loam
STONES	stones
TBD	to be determined
UNKNOWN	unknown
VERYCOARSAND	very coarse sand
VERYFINESAND	very fine sand
VERYFINESILT	very fine silt
VRYCRSPBGRVL	very coarse pebble gravel
VRYFINPBLGRV	very fine pebble gravel
VRYFINSANLOM	very fine sandy loam

DOMAIN NAME source list - fuel gas

DEFINITION Allowable input values for fuel/gas sources.

VALUE	DEFINITION
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME status list - electric switch

DEFINITION Allowable input values for the status of an electrical switch.

VALUE	DEFINITION
CLOSED	closed
CLOSEDCLOSED	closed - normally closed

CLOSEDOPEN	closed - normally open
OPEN	open
OPENCLOSED	open - normally closed
OPENOPEN	open - normally open
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME status list - manhole

DEFINITION Allowable input values for the status of a manhole.

VALUE	DEFINITION
ACTIVE	active and working
NONACTIVE	not being used
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME status list - owner

DEFINITION Allowable input values for the owner status

VALUE	DEFINITION
LEASED	leased
NA	not applicable
OCCUPIED	occupied
OTHER	other
OWNED	owned
RENTED	rented
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME structure - architecture style

DEFINITION Architectural period/style of a building/structure.

VALUE	DEFINITION

Utilities (domain)

ARTDECO	Modern movement - Art Deco
BEAUXARTS	late 19/20th - Beaux Arts
BUNGALOW	late 19/20th U.S. - Bungalow
CHICAGO	late 19/20th U.S.-Chicago
CLASSIC	late 19/20th Classical Revival
COLONIAL	late 19/20th Colonial Revival
COLONIAL_01	Colonial - unspecified
COLONIAL_02	New England Colonial
COLONIAL_03	Southern Colonial
COLONIAL_04	Spanish Colonial
COLONIAL_05	Dutch/Flemish Colonial
COLONIAL_06	Early Georgian Colonial
COLONIAL_07	Late Georgian Colonial
COLONIAL_08	French Colonial
COLONIAL_09	Colonial postmedieval English
COMMERCIAL	late 19/20th U.S. Commercial
CUMBERLAND	Cumberland
EASTLAKE	late Victorian/stick Eastlake
EGYPT	Egyptian Revival
EXOTIC	mid 19th Exotic Revival
FEDERAL	Early Republic/Federal
FRENCH	late 19/20th French RenaissReviv
GEORGIAN	Georgian Revival
GOTHIC_01	late Victorian Gothic
GOTHIC_02	mid 19th Gothic Revival
GOTHIC_03	early 19th Gothic Revival
GOTHIC_04	late 19/20th Gothic Revival
GREEK	mid 19th Greek Revival

Utilities (domain)

IHOUSE	Southern I House
INTERNATIONL	Modern movement - International
ITALIAN	late 19/20th Italian RenaisReviv
ITALIANATE	late Victorian Italianate
ITALIANVILLA	mid 19th Italian Villa
LOGHOUSE	Log Dwelling
MISSION_SPANISH	late 19/20th Spanish Revival
MIXED	Mixed
MODERNE	Modern movement - Moderne
MOORISH	Moorish Revival
NEOCLASSIC	Neoclassical Revival
NONE	no style listed
OCTAGON	mid 19th Octagon
OTHER	other
PEN_01	Single Pen
PEN_02	Double Pen
PLANTATION	Lowland South Plantation
PRAIRIE	late 19/20th U.S. Prairie School
PUEBLO	late 19/20th U.S. Pueblo Revival
QUEENANNE	late Victorian - Queen Anne
RANCH	Modern movement - Ranch
REGENCY	Regency
REPUBLIC	Early Republic/Early Classic Revival
REVIVAL	mid-19th Century Revival
ROMANESQUE	late Victorian - Romanesque
SHINGLE	late Victorian - Shingle
SHOTGUN	Shotgun
SKYSCRAPER	late 19/20th U.S. Skyscraper

Utilities (domain)

SULLIVAN	late 19/20th U.S. Sullivan
TBD	to be determined
TUDOR	late 19/20th Tudor Revival
TUDORELIZA	Tudor/Elizabethan
UNKNOWN	unknown
VICTEMPIRE2	late Victorian - Second Empire
VICTORIAN	Late Victorian
VICTRENAISS	late Victorian - Renaissance
WESTERN	Western Stick

DOMAIN NAME structure - condition

DEFINITION Structural condition and state of repair of a building/structure.

VALUE	DEFINITION
BOARDEDUP	boarded up
BROKENNOUSE	broken and unusable
BURNTNOUSE	burnt and not useable
BURNTUSEABLE	burnt but useable
CONDEMNED	condemned
CRACKED	cracked
DAMAGED	damaged
DAMAGEHEVUSE	heavily damage, but useable
DAMAGELITUSE	light damage, but useable
DAMAGEMODUSE	moderate damage, but useable
DAMAGHEVNO	heavy damage, and unusable
DAMAGLITNO	light damage, and unusable
DAMAGMODNO	moderate damage, and unusable
DANGEROUS	dangerous to use
GOODNOTNEW	good, but not new
HABITABLE	habitable

HABITABLENO	not habitable
MINORUSE	minor use
NEWLYBUILT	newly built
NEWUNFINISH	newly built, but not yet finished
NOTRESPASSNG	no trespassing
POOR	poor
QUARANTINED	quarantined
RADIOACTIVE	radioactive
TBD	to be determined
UNKNOWN	unknown
USEABLE	useable
USEABLENO	not useable

DOMAIN NAME structure - material

DEFINITION Basic material used for the construction of the frame and walls of a building/structure.

VALUE	DEFINITION
AL	Aluminum
BRICK	brick
BUILTUP	builtup
CANVAS	canvas
CARDBOARD	cardboard
CEMENT	cement
CEMENTBLOCK	cement block
CINDERBLOCK	cinder block
COMBINATION	combination of materials
CONCRETBLOCK	concrete block
CONCRETE	concrete
CONCRETEPILE	concrete pile
EARTHEN	earthen, dirt

Utilities (domain)

FIBERGLASS	fiberglass
GLASS	glass
GLASSBLOCK	glass block
GRASS	grass
HIDES	hides
LOGS	logs
METAL	metal
OTHER	other
PLASTIC	plastic
SHEETMETAL	sheet metal
SNOW	snow
STEEL	steel
STEELPILE	steel pile
STONE	stone
STYROFOAM	styrofoam
TBD	to be determined
TILE	tile
WOOD	wood
WOODENPILE	wooden pile

DOMAIN NAME structure - use

DEFINITION Normal use of a building/structure.

VALUE	**DEFINITION**
ABANDONED	abandoned in place
ADMINISTRATE	administration
AGRICULTURE	agricultural
COMMERCIAL	commercial
COMMUNCOMMR	community commercial
COMMUNICATE	communications

Utilities (domain)

COMMUNSERVE	community service
ELECTRICAL	electrical
EXPLOSIVSTOR	explosive storage
GENERALSTORE	general storage
GOVERNMENTAL	governmental
HAZARDMATERL	hazardous material storage
HAZARDWASTE	hazardous waste storage
HOUSEACCOMP	housing - accompanied
HOUSEALONE	housing - unaccompanied
INDUSTRIAL	industrial
LABORATORY	laboratory
LAUNCHCONTRL	launch control
LAUNCHSUPORT	launch support
MANUFACT	manufacturing
MEDICAL	medical
MOTORPOOL	motor pool (vehicles)
OTHER	other
RELIGIOUS	religious
REPAIR	repair and maintenance shops
RESIDENTIAL	residential
SANITARY	sanitary
SOCIAL	social
TBD	to be determined
TEMPLVACOM	temporary living facility - accompanied
TEMPLVSOLO	temporary living facility - unaccompanied
TRAINING	training
VACANT	vacant
WATERFACILTY	water facilities

DOMAIN NAME style list - drain field

DEFINITION Allowable input values for styles of drain fields.

VALUE	DEFINITION
FAN	fan drain field
NETWORK	network drain field
OTHER	other
SEEP_PIT	seepage pit
TBD	to be determined
TILE	tile field
UNKNOWN	unknown

DOMAIN NAME style list - gates

DEFINITION Allowable input values for styles of flow gates.

VALUE	DEFINITION
FLAP	flap gate
LIFT	lift gate
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME style list - open channel

DEFINITION Allowable input values for styles of open drainage channels.

VALUE	DEFINITION
CANALCMPLSEC	canal complex section
CANALTRPZSEC	canal trapezoidal section
LAKE	lake
OPENDRAINAGE	open drainage
OTHER	other
PAVEDDITCH	paved ditch
PAVEDINVRTDR	paved invert drain

POND	pond
RIVER	river
STORMWATER	storm water retention reservoir
SWALE	swale
TBD	to be determined
UNKNOWN	unknown
UNPAVEDITCH	unpaved ditch

DOMAIN NAME style list - tank

DEFINITION Allowable input values for styles of storage tanks.

VALUE	DEFINITION
ABOVEGROUND	A receptacle or chamber of which 90 percent or more is located above the surface of the ground.
DRAINSUMP	drain sump tank
ELEVATED	elevated
HYDROPNEU	hydropneumatic
OTHER	other
SCP	self contained propane gas tank
STANDPIPE	standpipe
TBD	to be determined
UNCONFNDRESV	unconfined reservoir
UNDERGROUND	A receptacle or chamber of which 10 percent or more is located beneath the surface of the ground.
UNKNOWN	unknown

DOMAIN NAME style list - valve

DEFINITION Allowable input values for styles of valves.

VALUE	DEFINITION
ANGLE	angle
BALL	ball
BUTTERFLY	butterfly
CHECK	check

DRYPIPE	dry pipe
GATE	gate
GLOBE	globe
NEEDLE	needle
OTHER	other
OTHERPOSTIND	other post indicator
PLUG	plug
PRESSREDUCNG	pressure reducing
PRESSRELIEF	pressure relief
QUAD	quad
REGULATING	regulating
STOP_WASTE	stop and waste
SWINGCHECK	swing check
TBD	to be determined
TRIPLEDUTY	triple duty
UNKNOWN	unknown

DOMAIN NAME type list - address

DEFINITION Type of address (e.g., Business, Home, Place of Birth).

VALUE	DEFINITION
ALT_BUSINESS	address of alternate business
ALT_HOME	address of alternate home
BIRTHPLACE	address of place of birth
BUSINESS	address of business of record
HOME	address of home of record
OTHER	other address
PREV_BUSINESS	address of previous business
PREV_RESIDENCE	address of previous residence
REL_BUSINESS	address of business of an individual family relation

REL_HOME	address of home of an individual family relation
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - anode test station

DEFINITION Allowable input values for types of anode test station.

VALUE	DEFINITION
CONDULET_POLE	condulet and pole mount (above ground)
FLUSH_GRADE	flush to grade (in ground)
OTHER	other
STD_REFCL_JNCBX	Standard Reference Cell Junction Box
STD_RESIS_JNCBX	Standard Resistor Junction Box
STD_SHNT_JNCBX	Standard Shunt Junction Box
STD_TERM_JNCBX	Standard Terminal Junction Box
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - culvert screen

DEFINITION Allowable input values for types of culvert screens.

VALUE	DEFINITION
HORZBAR	horizontal bar/pipe
OTHER	other
TBD	to be determined
UNKNOWN	unknown
VERTBAR	vertical bar/pipe

DOMAIN NAME type list - diameter measure

DEFINITION Allowable input values for the way diameter is measured.

VALUE	DEFINITION
INSIDE	inside diameter
NOMINAL	nominal or average diameter

OTHER	other
OUTSIDE	outside diameter
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - display

DEFINITION Allowable input values for types of displays

VALUE	DEFINITION
ANALOG	analog (dial) display
DIGITAL	digital display
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - drain

DEFINITION Allowable input values for type of drains.

VALUE	DEFINITION
FAN	fan
NETWORK	network
OTHER	other
SEALED	sealed
SEEPAGEPIT	seepage pit
STORMCONNECT	connected to storm system
SUBDRAIN	sub drain (French drain)
SUMPPUMP	sump pump
TBD	to be determined
TILEFIELD	tile field

DOMAIN NAME type list - ecm device

DEFINITION Allowable input values for types of energy monitoring/control devices.

VALUE	DEFINITION

FIELD_INTERFC	field interface
MULTIPLEX	multiplexer

DOMAIN NAME type list - effluent discharge

DEFINITION Allowable input values for types of effluent discharge.

VALUE	DEFINITION
DRAIN	drainage field
OPEN	open discharge point
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - electric cable

DEFINITION Allowable input values for types of electrical cable.

VALUE	DEFINITION
1_WIRE	1-wire, single conductor
3_WIRE_PRKWY	3-wire parkway
3_WIRE_ROUND	3-wire, round
3_WIRE_SGMNT	3-wire, segmental
4_WIRE_ROUND	4-wire, quad conductor
COAX	coaxial
DUPLEX	2-wire, dual conductor
OTHER	other
SOLIDCORE	solid core
SOLIDCORETB	solid core-twisted bundle around
SOLIDCORETS	solid core-twisted strand around
SOLIDIELEC	solid dielectric
TBD	to be determined
TS	twisted strands
TSCORE	twisted strands core

UNKNOWN	unknown

DOMAIN NAME type list - electric config

DEFINITION Allowable input values for types of electrical cable mounting configurations on the pole or tower.

VALUE	DEFINITION
ARMLESS	The cable group is mounted in a cluster at the top of the pole.
CROSSARM_EQL	The individual line mounts in a cable group are equally spaced on a standard length crossarm.
CROSSARM_UNEQL	The individual line mounts in a cable group are not equally spaced on a standard crossarm.
OTHER	other
SHORTARM	The individual line in a cable group are mounted on a cross arm less than 24-inches long.
TBD	to be determined
UNKNOWN	unknown
VERTICAL	The individual line mounts in a cable group are vertically spaced down the pole.

DOMAIN NAME type list - electric control

DEFINITION Allowable input values for types of electrical controls.

VALUE	DEFINITION
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - electric meter

DEFINITION Allowable input values for types of electric meters.

VALUE	DEFINITION
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - electric motor encl

DEFINITION Allowable input values for types of electric motor enclosures.

VALUE	DEFINITION
AIR/AIR	totally enclosed, air-to-air cooled

AIR_OVER	totally enclosed, air-over
DUST_PROOF	totally enclosed, dust-ignition proof
ENCL_FAN	totally enclosed, fan cooled
ENCL_FANG	totally enclosed, fan cooled, guarded
ENCL_NON	totally enclosed, nonventilated
ENCL_WAC	totally enclosed, water/air cooled
ENCL_WATER	totally enclosed, water cooled
EXPL_PROOF	totally enclosed, explosion proof
OPEN	open
OPEN_DGUARD	open, drip-proof guarded
OPEN_DP	open, drip-proof
OPEN_EV	open, externally ventilated
OPEN_GUARD	open, guarded
OPEN_PVENT	open, pipe ventilated
OPEN_SG	open, semiguarded
OPEN_SP	open, splash-proof
OPEN_WEATI	open, weather protected - Type I
OPEN_WEATII	open, weather protected - Type II
OTHER	other
PIPE_VENT	totally enclosed, pipe ventilated
TBD	to be determined
UNKNOWN	unknown
WATER_PROOF	totally enclosed, water-proof

DOMAIN NAME type list - electric motor insul

DEFINITION Allowable input values for types of electric motor insullation.

VALUE	**DEFINITION**
A	IEEE Std 1, 60- 70 deg C.
B	IEEE Std 1, 80- 90 deg C.

F	IEEE Std 1, 105- 115 deg C.
H	IEEE Std 1, 125- 135 deg C.
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - electric motor start

DEFINITION Allowable input values for types of electric motor starters.

VALUE	DEFINITION
AUTOTRN_STRT	autotransformer start
CAPCTR_RUN	capacitor run
CAPCTR_STRT	capacitor start
LINE_STRT	line start
OTHER	other
REACTR_REDUV	reactor type, reduced voltage
RESIST_REDUV	resistor type, reduced voltage
SHADED_POLE	shaded pole
SOLDSTATSTRT	solid state start
TBD	to be determined
UNKNOWN	unknown
Y_STRT_D_RUN	Y start delta run

DOMAIN NAME type list - electric phase

DEFINITION Allowable input values for electric phases.

VALUE	DEFINITION
A	A phase
AB	AB phase
ABC	ABC phase
AC	AC phase
B	B phase

BC	BC phase
C	C phase
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - electric switch

DEFINITION Allowable input values for types electric switches.

VALUE	DEFINITION
DISCONNECT	disconnect
ISO	ISO switch
OIL	oil switch
OTHER	other
RAC6WOIL	RAC 6way oil switch
RACOIL	RAC oil switch
RAMOIL	RAM oil switch
SOLIDBLADISC	solid blade disconnect
TBD	to be determined
UNKNOWN	unknown
VACUUM	vacuum

DOMAIN NAME type list - electric transformer

DEFINITION Allowable input values for types of electric transformers.

VALUE	DEFINITION
DRYMOUNTED	step-down uti. dist. trans, dry type, 4160 to 480/277 volts, 3-phase, utility voltages to commercial buildings and plants, for large appliances and large motors
OTHER	other
PADMOUNTED	stepdown pad mounted trans. dry type, 30K to 4,160K volts, 3-phase, distribution voltage to utility, pole mounted residential transformers or dry mounted commercial, utility transformers
POLEMOUNTED	stepdown util. dist. trans. liq. filled, 4160 to 120/240 volts, 1-phase, utility voltages to residences and small shops, for small appliances and small motors
STEPDOWN	stepdown substation trans. liq. filled, 450K to 30K volts, 3-phase, distribution voltage to step-down pad mounted transformer

STEPUP	stepup power station trans. liq. filled, 30K to 450K volts, 3-phase, transmission voltage to utility substation
SUBMERSIBLE	Transformers used in some underground systems installed in residential areas.
TBD	to be determined
UNKNOWN	unknown
VAULT	Transformers installed for commercial customers where adequate space is not available for pad mounted transformers.

DOMAIN NAME type list - electric volt regul

DEFINITION Allowable input values for types of electric voltage regulators.

VALUE	DEFINITION
OTHER	other
TBD	to be determined
UNKNOWN	unknown
VOLTREG_1	1-phase, 7.5-19.9 Kvs, 50-418 amps, 7.6-19.9 Kva, metered or digital parameters, multiple microprocessor controlled step-voltage regulator.
VOLTREG_3	3-phase, 13-34 Kvs, 220-445 amps, 500-2670 Kva, metered or digital parameters, multiple microprocessor controlled step-voltage regulator.

DOMAIN NAME type list - event

DEFINITION Allowable input values for an event type.

VALUE	DEFINITION
BEGIN	beginning event
END	ending event
INDEPENDENT	independent (unassociated) event
INTERMEDIATE	intermediate event
MIDPOINT	midpoint event
OTHER	other
PAUSE	pause event
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - fitting

DEFINITION Allowable input values for types of fittings.

VALUE	DEFINITION
ANGLE	pipe angle
CAP	pipe cap
CLEANOUT	pipe cleanout
CROSS	pipe cross
ELBOW	pipe elbow
FLANGE	pipe flange
PLUG	pipe plug
REDUCER	pipe pressure reducer
TEE	pipe tee

DOMAIN NAME type list - fuel gas

DEFINITION Allowable input values for types of fuel or gas.

VALUE	DEFINITION
ANTIFREEZE	antifreeze
AVGAS	aviation gas
BUTANEGAS	butane gas
COALGAS	coal gas
DIESELFUEL	diesel fuel
EMPTY	empty
ETHANEGAS	ethane gas
ETHANOL	ethyl alcohol
FUELOIL4	fuel oil - no. 4
FUELOIL6	fuel oil - no. 6
GASOLINE	gasoline
HYDRAULICFLD	hydraulic fluid
JP4FUEL	jet fuel 4

JP5FUEL	jet fuel 5
JP8FUEL	jet fuel 8
KEROSENE	kerosene
LQNATURALGAS	liquified natural gas
LQPETROGAS	liquified petroleum gas
LQPROPANEGAS	liquified propane gas
METHANEGAS	methane gas
METHANOL	methyl alcohol
MINERALOIL	mineral oil
MOGAS	mogas
MOTOROIL	motoroil
NATGAS	natural gas
OTHER	other
PROPANEGAS	propane gas
TBD	to be determined
TRANSMISNFLD	transmission fluid
UNKNOWN	unknown
WASTEOIL	waste oil
WASTEPOLLUTE	waste pollutants

DOMAIN NAME type list - fuel meter

DEFINITION Allowable input values for types of fuel meters.

VALUE	DEFINITION
DUALCASE	pump/rotary/vanes - case in case - normal terminal
GEARCASE	metal gears - positive displacement - normal bulk plant
OTHER	other
PISTON	pump/3 piston/chamber - normal service station
ROTARY	pump/rotary/vanes - normal bulk plant
ROTARYIMPLER	rotary impeller - pressure driven - normal pipeline

TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - fuel source

DEFINITION Allowable input values for types of fuel sources.

VALUE	DEFINITION
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - gas fixture

DEFINITION Allowable input values for types of gas fixtures.

VALUE	DEFINITION
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - gas meter

DEFINITION Allowable input values for types of gas meters.

VALUE	DEFINITION
DIAPHRAGM	diaphragm - positive displacement - normal residence
ORIFICE	orifice - pressure drop across plate - city gate, transmission company
OTHER	other
ROTARY	rotary - impeller driven - normal commercial, industrial
TBD	to be determined
TURBINE	turbine - turbine driven, continuous flow - normal industrial
UNKNOWN	unknown

DOMAIN NAME type list - generator

DEFINITION Allowable input values for types of generators.

VALUE	DEFINITION
OTHER	other

TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - heating-cooling

DEFINITION Allowable input values for the types of heating and cooling systems.

VALUE	DEFINITION
CHW	chilled water: water less than 45 deg. F.
HTW_CHW	high temp - chilled water
LTW	low temperature water: water less than 250 deg. F.
LTW_CHW	low temp - chilled water
OTHER	other
S	steam
S_CHW	steam - chilled water
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - hydrant

DEFINITION Allowable input values for type of hydrants.

VALUE	DEFINITION
AIRPORT	airport hydrant
BUILDING	building hydrant
DRINKFOUNT	drinking fountain
DRYBARREL	dry barrel
FREEZEPROOF	freeze proof
FUEL	fuel hydrant
NATGAS	natural gas hydrant
OTHER	other
STREETWASH	street washer
TBD	to be determined
UNKNOWN	unknown

WASHRACK	wash rack hydrant
WATER	water hydrant
WETBARREL	wet barrel
YARD	yard hydrant

DOMAIN NAME type list - laboratory

DEFINITION Allowable input values for types of labatories

VALUE	DEFINITION
CHEMICAL	chemical testing laboratory
ENVIRONMENTAL	environmental testing laboratory
GEOTECHNICAL	geotechnical (soils and rock) testing laboratory
OTHER	other
STRUCTURAL	structural testing laboratory
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - lagoon

DEFINITION Allowable input values for types of lagoons

VALUE	DEFINITION
LINED_FAB	lagoon with geotextile liner
LINED_SOIL	lagoon with soil liner
OTHER	other
TBD	to be determined
UNKNOWN	unknown
UNLINED	lagoon with out engineering designed liner

DOMAIN NAME type list - manhole

DEFINITION Allowable input values for type of manhole/pit/junction box.

VALUE	DEFINITION
ABOVEGROUND	above ground
DIST_BOX	distribution box

DRAINPIT	drain pit
OTHER	other
PIT	pit
SEEPAGEPIT	seepage pit
SUMP	sump
TBD	to be determined
UNDERGROUND	under ground
UNKNOWN	unknown

DOMAIN NAME type list - manhole liner

DEFINITION Types of liners used in neutralizing pits.

VALUE	DEFINITION
GLASS	glass liner
OTHER	other
PLASTIC	plastic liner
TBD	to be determined
UNKNOWN	unkown

DOMAIN NAME type list - motor

DEFINITION Allowable input values for type of electrical motor.

VALUE	DEFINITION
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - oil/water separator

DEFINITION Allowable input values for type of oil-water separators.

VALUE	DEFINITION
API	API standard
CEMENT	cement
CONCRETE	concrete

FIBERGLASS	fiber glass
OTHER	other
PARALELPLATE	parallel plate
POLYURETHANE	polyurethane
REINFORCONCR	reinforced concrete
STEEL1	steel single
STEEL2	steel double
STEELENCASED	steel encased
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - owner

DEFINITION Allowable input values for types of owners

VALUE	DEFINITION
CABLETV	cable television company
CINEMA	motion picture company
COMMERCIAL	commercial
COMPOSTGOVRN	composting company - government
COMPOSTPRIVT	composting company - private
DISPOSALGOVR	disposal company - government
DISPOSALPRIV	disposal company - private
ELECTRIC	electric company
FUEL	fuel company
GOV_CITY	government - city
GOV_COUNTY	government - county
GOV_FEDERAL	government - federal
GOV_PARISH	government - parish
GOV_STATE	government - state
NATGAS	natural gas company

OTHER	other
PRIVATECOMP	private company
PRIVATEINDIV	private individual
RADIO	radio company
RADIO_TV	radio/television company
RECYCLEGOVRN	recycling plant - government
RECYCLEPRIVT	recycling plant - private
TBD	to be determined
TELEPHONE	telephone company
TELEVISION	television company
UNKNOWN	unknown
WASTEWATER	waste water company
WATER	water company

DOMAIN NAME type list - pipe

DEFINITION Allowable input values for type of pipe.

VALUE	DEFINITION
BOX	box
CIRCULAR	circular
OTHER	other
OVALONGAXHRZ	oval long axis horizontal
OVALONGAXVRT	oval long axis vertical
PERFORATPIPE	perforated pipe
PIPEARCH	pipe arch
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - pole cable

DEFINITION Allowable input values for type of pole cable.

VALUE	DEFINITION

18_7_FC	18x7 FC
19_7	19x7
3_19_FLUSHER	3x19 slusher
3_7_GRD_RAIL	3x7 guard rail
5_19_CLAD	5x19 marlin clad FC
6_12_FILLER_FC	6x12 filler wire FC
6_12_GALV_FC	6x12 galvanized running rope FC
6_19_CLAD	6x19 marlin clad
6_19_SEALE_IWRC	6x19 Seale IWRC
6_24_HAWSER	6x24 hawser
6_25_FILL_IWRC	6x25 filler wire IWRC
6_25B_FLAT_FC	6x25B flattened strand FC
6_26_WARR_IWRC	6x26 Warrington Seale IWRC
6_27H_FLAT_FC	6x27H flattened strand FC
6_3_19_SPRING	6x3x19 spring lay
6_30_HAWSER	6x30 hawser
6_30G_FLAG_FC	6x30G flattened strand FC
6_31_FILL_IWRC	6x31 filler wire IWRC
6_31_WARR_IWRC	6x31 Warrington Seale IWRC
6_36_SEALE_IWRC	6x36 Seale filler wire IWRC
6_36_WARR_IWRC	6x36 Warrington Seale IWRC
6_41_SEALE_IWRC	6x41 Seale filler wire IWRC
6_41_WARR_IWRC	6x41 Warrington Seale IWRC
6_42_TILLER_FC	6x42 tiller rope FC
6_46_SEALE_IWRC	6x46 Seale filler wire IWRC
6_49_FILL_FC	6x49 filler wire Seale FC
6_6_7_TILLER	6x6x7 tiller rope
6_7_FC	6x7 FC

8_19_SEALE_FC	8x19 Seale FC
8_25_FILLER_IWR	8x25 filler wire IWRC
8_9_SEALE_IWRC	8x9 Seale IWRC
BARE	bare
DUPLEX	duplex
EHS	Extra High Strength Steel
EIP	Extra Improved Plow Steel
FC	FiberCore
FE	Iron
HSS	High Strength Steel
IPS	Improved Plow Steel
IWRC	Independent Wire Rope Core
MPS	Mild Plow Steel
OTHER	other
PRIMARY	primary
PS	Plow Steel
SECONDARY	secondary
TBD	to be determined
TRIPLEX	triplex
TS	Traction Steel
UNKNOWN	unknown
WEATHRPROFCU	weatherproofed-Copper
WSC	Wire-Strand Core

DOMAIN NAME type list - pole treatment

DEFINITION Treatments applied to poles to improve their useful life.

VALUE	DEFINITION
CREOSOTE	The pole has been treated with creosote.
OTHER	Other, Not otherwise listed

PAINT	The pole has been painted to prevent corrosion.
TBD	To be determined
UNKNOWN	Unknown

DOMAIN NAME type list - pole/tower

DEFINITION Allowable input values for type of pole or tower.

VALUE	DEFINITION
DOUBLEPOLE	double pole
OTHER	other
POLE	pole
TBD	to be determined
TOWER	tower
UNKNOWN	unknown

DOMAIN NAME type list - project

DEFINITION A descriptor indicating the general category or type of project

VALUE	DEFINITION
CIVIL_WORKS	CORPS OF ENGINEERS CIVIL WORKS, GENERAL
COMPLIANCE	ENVIRONMENTAL COMPLIANCE
FUDS	DEPARTMENT OF DEFENSE FORMERLY USED DEFENSE SITE
IRP	DEPARTMENT OF DEFENSE INSTALLATION RESTORATION PROGRAM
MILCON	Military Department of Defense Construction Projects
OTHER	Other, Not otherwise listed.
RESTORATION	ENVIRONMENTAL RESTORATION, CLEANUP, OR REMEDIATION
SUPERFUND	ENVIRONMENTAL PROTECTION AGENCY SUPERFUND PROGRAM
TBD	TO BE DETERMINED
UNKNOWN	Unknown

DOMAIN NAME type list - pump

DEFINITION Allowable input values for type of pump.

VALUE	DEFINITION

OTHER	other
SUBMURCTFG	submersible/centrifugal
SUBMURTRBN	submersible/turbine
TBD	to be determined
UNKNOWN	unknown
VERTLFTCTFG	vertical lift/centrifugal
VERTLFTDISPL	vertical lift/displacement
VERTLFTMAG	vertical lift/magnetic
VERTLFTTRBN	vertical lift/turbine

DOMAIN NAME type list - regulator

DEFINITION Allowable input values for type of non-electrical regulator.

VALUE	DEFINITION
PRESSREDVAL	pressure reducing valve
REDUCER	reducer
REGULATOR	regulator

DOMAIN NAME type list - reservoir

DEFINITION Allowable input values for types of reservoirs

VALUE	DEFINITION
LAGOON	lagoon
LAKE	lake
OTHER	other
POND	pond
TANK	tank
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - sewage test

DEFINITION Allowable input values for type of sewage test.

VALUE	DEFINITION

BOD	biological O2 dissolved
COD	chemical O2 dissolved
DO	dissolved O2
FC	fecal coliform
OTHER	other
SS	suspended solids
TBD	to be determined
TC	total coliform bacteria
UNKNOWN	unknown

DOMAIN NAME type list - sheath insulate

DEFINITION Allowable input values for type of sheathing or insullation.

VALUE	DEFINITION
ASBEST_SIL	asbestos-silicone bond
ASBESTOS	asbestos
CAMBRIC_PB_COV	varnished cambric, Pb covered
CELLULOSE	cellulose-acetate fiber
COTTON_YARN	cotton yarn
DOUBLE_TAPE	double tape armored
FIBER_PAPER	polyimide fiber paper
GLASS_FIBER	glass fiber-organic bond
GLASS_ORGANIC	glass/polyesterfib-organic bond
GLASS_SILICONE	glass/polyesterfib-silicone bond
JUTE	jute protected
NEOPRENE	neoprene
OPEN_WIRE	open wire
OTHER	other
PAPER	paper
PAPER_PB_COV	paper insulated Pb covered

PB_ARMOR	Pb armored
PB_COVER	Pb covered
PLASTIC_CLAD	plastic clad
PLASTIC_GEL	plastic, gel-filled
POLY_CROSS	polyethylene (XLPE), cross-linked
POLY_FOAM	polyethylene (PE), foamed
PPP	polypropylene (PPP)
PVC	polyvinyl chloride
QUAD_TAPE	quad tape, armored
RUBBER_BUT	rubber-butyl
RUBBER_EPT	rubber-EPT
RUBBER_NBR	rubber-NBR
SHIELDED	shielded
TAPE_ARMOR	tape armored
TBD	to be determined
TFE	polytetrafluroethylene (TFE)
WEATHERPROOF	weatherproofed
WIRE_ARMOR	single wire, armored

DOMAIN NAME type list - station

DEFINITION Allowable input values for type of station (booster, pump, electrical substation, etc.)

VALUE	DEFINITION
BOOSTER	booster station
METER	Metering Station
OTHER	other
PPSP	Propane Peak Shaving Station
PRESS_REDUCE	pressure reducing station
PUMP	pumping station
SUBSTATION	electrical substation

TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - stilling basin

DEFINITION Allowable input values for type of stilling basin.

VALUE	DEFINITION
BAFFLE	baffle block basin
FLIPBUCK	flip bucket
IMPACT	impact basin
OTHER	other
RIPRAP	riprap
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - structure

DEFINITION Type of a building/structure.

VALUE	DEFINITION
APARTMENT	apartment building
BARN	barn
CHURCH	church/temple
CONDO	condominium
DUPLEX	house, duplex
FACTORY	factory
HANGER	hanger
HOUSE	house, single family
OFFICE	office building
OTHER	other
SKYSCRAPER	skyscraper
SURVIVALSHLT	survival shelter
TBD	to be determined

TOWNHOUSE	townhouse
WAREHOUSE	warehouse

DOMAIN NAME type list - substation

DEFINITION Allowable input values for type of electrical substation.

VALUE	DEFINITION
DISTRIBUTION	Substations located in the middle of a load area.
OTHER	other
SUBTRANSMISSION	Electric substations with equipment used to switch circuits operating at voltages in the range of 34.5 to 161kV.
TBD	to be determined
TRANSMISSION	A substation which uses alternating current which contains equipment used to sectionalize the system when a fault or circuit develops.
UNKNOWN	unknown

DOMAIN NAME type list - substation frame

DEFINITION Allowable input values for type of substation framing.

VALUE	DEFINITION
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - treatment plant

DEFINITION Allowable input values for type of water or wastewater treatment plant.

VALUE	DEFINITION
AERATOR	aerator
AEROBIC	aerobic
ANAEROBIC	anaerobic
BIOLOGIC	biological treatment process
CHEMICALTRET	chemical treatment process
FACULTATIVE	facultative
GARBAGEINCIN	garbage incinerator plant

INDUSTRIALWS	industrial waste treatment plant
OTHER	other
SEWAGETREAT	sewage treatment plant
TBD	to be determined
UNKNOWN	unknown
WATERTREAT	water treatment plant

DOMAIN NAME type list - utility

DEFINITION Allowable input values for type of utility.

VALUE	DEFINITION
CABELTV	cable television
COMMUNICATE	communication/telephone system
ELECTRICAL	electrical
FUEL	fuel system
INDUSTRIAL	industrial waste system
NATGAS	natural gas system
OTHER	other
SANITARY	sanitary system
TBD	to be determined
UNKNOWN	unknown
WATER	water system

DOMAIN NAME type list - utility guy

DEFINITION Allowable input values for type of utility guy.

VALUE	DEFINITION
ANCHOR_GUY	anchor guy
BUILDING_GUY	building guy
COMPRESS_GUY	compressive guy
DOWN_GUY	down guy
OTHER	other

SPAN_GUY	span guy
STUB_GUY	stub guy
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME type list - water flow control

DEFINITION Allowable input values for type of water flow control.

VALUE	DEFINITION
GATE	gates
METER	meter
OTHER	other
STILLBASIN	stilling basin
TBD	to be determined
UNKNOWN	unknown
WEIR	weir

DOMAIN NAME type list - water meter

DEFINITION Allowable input values for type of water meter.

VALUE	DEFINITION
AUTOREDCNTRL	automated meter reading - centralized system
AUTOREDPITPR	automated meter reading - pit probe
AUTOREDTPAD	automated meter reading - touch pad
COMPOUND	piston/turbine - single register
DETECTOR	detector check valve - turbine - fire line, sprinklers
GENEREMOTE	generator remote system - compound and propeller meters
HYDRANT	hydrant meter at fire hydrant - turbine
IRRIGATE	irrigation meters - continuous, high flows
OTHER	other
PISTON	oscillating piston - positive displacement - normal residence
PROPELLER	propeller meters - continuous, high flows

TBD	to be determined
TURBINE	turbine - turbine driven, continuous flow - normal industrial
UNKNOWN	unknown
WEIR	open channel weir

DOMAIN NAME type list - water source

DEFINITION Allowable input values for types of water sources

VALUE	DEFINITION
ARROYO	arroyo/draw/wash
ARTISAN_WELL	artisan well
BAYOU	bayou
CREEK	creek
DEEPWELL	deep well
DRY_PLAYA	dry playa
GEYSER	geyser
GLACIER	glacier
GULF	gulf
HAIL	hail
ICEBERG	iceberg
LAKE	lake
OCEAN	ocean
OTHER	other
POND	pond
RAINFALL	rainfall
RESERVOIR	reservoir
RIME	hoarfrost, dew, condensed fog
RIVER	river
RUNOFF	runoff
SLEET	sleet

SLOUGH	slough
SNOWFALL	snowfall
SPRING	spring
STREAM	stream
SWAMP	swamp
TBD	to be determined
UNKNOWN	unknown
WET_PLAYA	wet playa

DOMAIN NAME type list - winding connection

DEFINITION Allowable input values for type of electrical winding connection.

VALUE	DEFINITION
DELTA	delta
GROUNDED_Y	grounded wye
HIGHLEG_DELTA	high-leg delta
OPEN_DELTA	open delta
OTHER	other
TBD	to be determined
UNKNOWN	unknown
Y	wye

DOMAIN NAME unit of measure - angular

DEFINITION Angular units of measure.

VALUE	DEFINITION
ARCSEC	arc seconds
DDMMSS	degrees:minutes:seconds
DEG	degrees
GRADE	grades
MICRORAD	microradians
MILLIRAD	milliradians

MINUTES	minutes
OTHER	other
PCT	percent
RAD	radians
SEC	seconds
STERAD	steradians
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME unit of measure - area

DEFINITION Area units of measure.

VALUE	DEFINITION
ACRES	acres - 43,560 sq. feet
ARES	ares - 1 sq. dekameter
CM2	square centimeters - 0.115 sq. inches
DA	deciares - 11.96 sq. yards
DM2	square decimeters - 15.5 sq. inches
HA	hectares - 2.471044 acres
KM2	square kilometers - .3861006 sq. miles
M2	square meters - 10.76387 sq. feet - 1 centare
MI2	square miles - 640 acres
MM2	square millimeters - 0.00155 sq. inches
OTHER	other
RDS	square rods - 30.25 sq. yards
SF	square feet - 144 sq. inches
SI	square inches - 6.4516258 sq. cm.
SQCH	square chains (Surveyor) - 4356 sq. feet - 16 sq. rods
TBD	to be determined
UNKNOWN	unknown

YD2	square yard - 0.83613 sq. meters

DOMAIN NAME unit of measure - electric

DEFINITION Electrical energy units of measure.

VALUE	DEFINITION
AMP	ampere - current
ATTEN_LOSS	attenuation loss
ATTO	atto (10x-18)
BD	baud - signaling rate
BTU	British thermal unit - energy
BW	bandwidth
CD	candela - luminous intensity
CENTI	centi (10x-2)
D	deci (10x-1)
DA	deca (10x1)
DYN	dyne - force
E	exa (10x18)
ERG	erg - energy
EV	electronvolt - energy
F	femto (10x-15)
FARAD	farad - capacitance
G	giga (10x9)
GB	gilbert - magnetomotive force
H	hecto (10x2)
HENRY	henry - inductance
HP	horsepower - power
HP_HR	horsepower hour - energy
HZ	hertz - frequency
JOULE	joule - energy

KA	kiloampere - current
KEV	kiloelectronvolt - energy
KHZ	kilohertz - frequency
KILO	kilo (10x3)
KJ	kilojoule - energy
KOHM	kilohm - resistance
KV	kilovolt - potential
KVA	kilovolt ampere - power (absolute)
KVAR	kilovolt ampere reactive
KW	kilowatt - power
KWH	kilowatt hour - energy
MEGA	mega (10x6)
MICRO	micro (10x-6)
MILLI	milli (10x-3)
NANO	nano (10x-9)
OE	oerstad - magnet field strength
OHM	ohm - resistance, impedance, reactance
OTHER	other
P_F_	power factor
PERCENT	percent
PETA	peta (10x15)
PICO	pico (10x-12)
Q	coulomb - electric charge
RELS	reluctance - opposition to magnetic flux flow
SIEMENS	siemens - conductance, mho
TBD	to be determined
TERA	tera (10x12)
TESLA	tesla - magnetic flux density

UNKNOWN	unknown
V	volt - potential
W	watt - power
W_CM2	watts per square centimeter - power per area
WEBER	weber - magnetic flux

DOMAIN NAME unit of measure - length

DEFINITION Length units of measure.

VALUE	DEFINITION
CABLN	cable lengths - 720 feet
CH	chains - 66 feet or 100 links (Gunter)
CM	centimeters
EM	ems - 0.166667 inches
EN	ens - 0.083333 inches
FATHOM	fathoms - 6 feet
FT	feet - 0.3048006 meters
FURLONG	furlongs - 0.125 miles or 40 rods (Gunter)
HAND	hands - 4 inches, 10.160 centimeters
IN	inches - 0.126263 links (Gunter)or 2.54 centimeters
KM	kilometers - 0.53961 miles or 3280.8 feet
LEAGUE	league - 3 statute miles or 4.8280 kilometers
LINK	links - 7.92 inches or 0.04 rods (Gunter)
M	meters - 1.093614 yards or 39.3701 inches
MI	miles - 80 chains (Gunter) or 320 rods
MIL	mils - 0.001 inches
MINLAT	minutes of latitude
MM	millimeters - 0.03937 inches
MYM	myriameters - 6.21372 miles
NLEAGUE	nautical leagues - 3 nautical miles or 5.5597 kilometers

NM	nautical miles - 1.1516 statute miles
OTHER	other
PICA	picas - 0.166666 inches or 12 points
POINT	point - 0.1384 inches
RD	rods - 0.25 chains (Gunter) or 5.5 yards
TBD	to be determined
UM	micrometers - 0.00003937 inches

DOMAIN NAME unit of measure - pressure

DEFINITION Pressure units of measure.

VALUE	DEFINITION
BARYEA	barye - dynes/cm2 (absolute)
BARYEG	barye - dynes/cm2 (gauge)
INH2OA	inches of water at 4°C. (absolute)
INH2OG	inches of water at 4°C. (gauge)
INHGA	inches of mercury at 0°C. (absolute)
INHGG	inches of mercury at 0°C. (gauge)
MEGABARYEA	megabarye - 1,000,000 barye (absolute)
MEGABARYEG	megabarye - 1,000,000 barye (gauge)
MMGA	millimeters of Hg at 0°C. (absolute)
MMGG	millimeters of Hg at 0°C. (gauge)
MMHG	millimeters of Hg (torr)
OTHER	other
PSFT	pounds/ft2
PSI	pounds/in2
PSIA	pounds/in2 (absolute)
PSIG	pounds/in2 (gauge)
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME unit of measure - rate

DEFINITION Rate units of measure.

VALUE	DEFINITION
BOILER_HP	boiler horsepower, 33,520 BTU per hour, measure of heating ability
BTU_HR	British thermal units per hour
BTU_MIN	British thermal units per minute
BTU_SEC	British thermal units per sec
C_HR	degrees Celsius per hour
C_MIN	degrees Celcius per minute
C_SEC	degrees Celsius per second
CC_HR	cubic centimeters per hour
CC_MIN	cubic centimeters per minute
CC_SEC	cubic centimeters per second
CF_HR	cubic feet per hour
CF_MIN	cubic feet per minute
CF_SEC	cubic feet per second
CI_HR	cubic inches per hour
CI_MIN	cubic inches per minute
CI_SEC	cubic inches per second
CM_DA	centimeters per day
CM_HR	centimeters per hour
CM_YR	centimeters per year
F_HR	degrees Fahrenheit per hour
F_MIN	degrees Fahrenheit per minute
F_SEC	degrees Fahrenheit per second
FT_DAY	feet per day
FT_HR	feet per hour
FT_MIN	feet per minute

FT_MO	feet per month
FT_SEC	feet per second
FT_WK	feet per week
FT_YR	feet per year
G_CC	grams per cubic centimeter
G_HR	grams per hour
G_L	grams per liter
G_MIN	grams per minute
G_SEC	grams per second
GPD	gallons per day
GPH	gallons per hour
GPM	gallons per minute
GPS	gallons per second
IN_DAY	inches per day
IN_HG	inches of mercury
IN_HR	inches per hour
IN_MIN	inches per minute
IN_MO	inches per month
IN_SEC	inches per second
IN_WK	inches per week
IN_YR	inches per year
K_HR	degrees Kelvin per hour
K_MIN	degrees Kelvin per minute
K_SEC	degrees Kelvin per second
KG_HR	kilograms per hour
KG_MIN	kilograms per minute
KG_SEC	kilograms per second
KM_HR	kilometers per hour

KNOT	knots
L_HR	liters per hour
L_MIN	liters per minute
L_SEC	liters per second
LB_DAY	pounds per day
LB_HR	pounds per hour
LB_MIN	pounds per minute
LB_MONTH	pounds per month
LB_SEC	pounds per second
LB_WK	pounds per week
LB_YR	pounds per year
M_HR	meters per hour
M_MIN	meters per minute
M_SEC	meters per second
M3_HR	cubic meters per hour
M3_MIN	cubic meters per minute
M3_SEC	cubic meters per second
MACH	mach (speed of sound)
MGAL_DAY	million gallons per day
MPH	miles per hour
OTHER	other
PSI	pounds per square inch
TBD	to be determined
TIMES_DAY	times per day
TIMES_HR	times per hour
TIMES_MIN	times per minute
TIMES_MO	times per month
TIMES_SEC	times per second

TIMES_WK	times per week
TIMES_YR	times per year
TNSH_DAY	tons (short) per day
TNSH_HR	tons (short) per hour
TNSH_MIN	tons (short) per minute
TNSH_MO	tons (short) per month
TNSH_SEC	tons (short) per second
TNSH_WK	tons (short) per week
TNSH_YEAR	tons (short) per year
TONS	12,000 BTU per hour, measure of cooling ability
UNKNOWN	unknown

DOMAIN NAME unit of measure - temperature

DEFINITION Temperature units of measure.

VALUE	DEFINITION
A	degrees Absolute
C	degrees Celcius
F	degrees Fahrenheit
K	degrees Kelvin
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME unit of measure - volume

DEFINITION Volume units of measure.

VALUE	DEFINITION
AFT	acre feet
BDFT	board feet
CC	cubic centimeters
CD	cords

CDFT	cord-foot
CF	cubic feet
CI	cubic inches
CY	cubic yards
HL	hectoliters
HM	hectometer
KL	kiloliters
KM3	cubic kilometers
L	liters
M3	cubic meters - stere
MI3	cubic miles
ML	milliliters
MM3	cubic millimeters
OTHER	other
TBD	to be determined
TUN	tun
UAGI	gills (U.S.liquid)
UKBBL	dry barrels (U.K.dry)
UKBUDRY	bushels (U.K.dry)
UKGAL	gallons (U.K.liquid)
UKGI	gills (U.K.liquid)
UKHHD	hogsheads (U.K.liquid)
UKPK	peck (U.K.dry)
UKPT	liquid pints (U.K.liquid)
UKQT	liquid quarts (U.K.liquid)
UNKNOWN	unknown
USBBL_DRY	dry barrels (U.S.dry)
USBBL_LIQ	liquid barrels (U.S.liquid)

USBUDRY	bushels (U.S.dry)
USGAL	gallons (U.S.liquid)
USHHD	hogsheads (U.S.liquid)
USPK	peck (U.S.dry)
USPT_DRY	dry pints (U.S.dry)
USPT_LIQ	liquid pints (U.S.liquid)
USQT_DRY	dry quarts (U.S.dry)
USQT_LIQ	liquid quarts (U.S.liquid)

DOMAIN NAME unit of measure - weight

DEFINITION Weight units of measure.

VALUE	DEFINITION
CARAT	carats
CWT	short hundredweights - cental
DWT	pennyweights
GM	grams
GS	grains
KG	kilograms
KTONS	kilotons
LB	pounds (Avoirdupois)
LBT	pounds (Troy)
MG	milligrams
OTHER	other
OZ	ounces (Avoirdupois)
OZT	ounces (Troy)
QNT	quintals
T	tonnes (metric) - millier
TBD	to be determined
TNL	tons (long)

TNSH	tons (short)
UNKNOWN	unknown

DOMAIN NAME use list - electric cable

DEFINITION Allowable input values for electric cable use.

VALUE	DEFINITION
ABANDONED	abandoned/inactive cable
OTHER	other
PRIMARY_OH	primary overhead cable
PRIMARY_UG	primary underground cable
SECONDARY_OH	secondary overhead cable
SECONDARY_UG	secondary underground cable
SERVICE_OH	service, overhead cable
SERVICE_UG	service, underground cable
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME use list - electric device

DEFINITION Allowable input values for electric device use.

VALUE	DEFINITION
ACPOWERPANEL	ac power panel
ALARMPULLBOX	alarm pullbox
BATTERY	battery
CAPACITOR	capacitor
CIRCUITBREAK	circuit breaker
COMMERCIAL	commercial service
DCPOWERPANEL	dc power panel
DISTRIBFRAME	distribution frame
DISTRIBPANEL	distribution panel
ELEC_METER	electric meter

ELEC_MOTOR	electric motor
FIELDINTERFC	field interface
GENERATOR	generator
GROUND	ground
INTDISTRFRAM	intermediate distribution frame
JUNCTIONBOX	junction box
LIGHT	light
LOAD_POINT	load point
MAINDISTFRAM	main distribution frame
OTHER	other
PEDESTAL	pedestal
RECTIFIER	rectifier
RESIDENTIAL	residential service
SPLICE	splice
SWITCH	switch
TBD	to be determined
TRAFFICSIGNL	traffic signal
TRANSFORMER	transformer
TRFSIGCONBOX	traffic signal control box
UNKNOWN	unknown
VOLTREGULATE	voltage regulator

DOMAIN NAME use list - gas fixture

DEFINITION Allowable input values for gas fixture use.

VALUE	DEFINITION
EX_LIGHT	exterior light
IN_LIGHT	interior light
OTHER	other
SEC_LIGHT	security light

ST_LIGHT	street light
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME use list - pump

DEFINITION Allowable input values for pump use.

VALUE	DEFINITION
AIR	air
CHEMICALS	chemicals
CHILLWATER	chilled water
FREON	freon
GASOLINE	gasoline
HOTWATER	hot water
LIQUIDFUEL	liquid fuel
NATGAS	natural gas
OIL	oil
OTHER	other
SANITATION	sanitation sewage
SLUDGE	sludge
STEAM	steam
STORMWATER	storm/rainwater
TBD	to be determined
UNKNOWN	unknown
WASTEWATER	wastewater
WATER	water

DOMAIN NAME use list - reservoir

DEFINITION Allowable input values for types of reservoir useage

VALUE	DEFINITION
FISH_WILD	fish and wildlife

HYDRO	hydropower
OTHER	other
RECREAT	recreation
TBD	to be determined
TMPHOLD	temporary holding basin
UNKNOWN	unknown
WATERSUP	water supply

DOMAIN NAME use list - tank

DEFINITION Allowable input values for tank use.

VALUE	DEFINITION
CHEMICAL	chemical
DISPOSAL	disposal tank
FUEL	fuel
NATGAS	natural gas
OTHER	other
POTWATER	potable water
PROPGAS	propane gas
RAWWATER	raw water
SEPTIC_TANK	septic tank
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME use list - valve

DEFINITION Allowable input values for valve use.

VALUE	DEFINITION
CHECK	chech or one-way valve
CONTROL	control valve
DRAIN	drain/flush valve
MAIN	main control valve

OTHER	other
SERVICE	service control valve
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME value list - BIL kv

DEFINITION Allowable input values for Basic Insulation Level rating.

VALUE	DEFINITION
15KV	15kv basic insulation level
25KV	25kv basic insulation level
5KV	5kv basic insulation level
OTHER	other
TBD	to be determined

DOMAIN NAME value list - boolean

DEFINITION Boolean (True/False or 0/1 expressions)

VALUE	DEFINITION
NO	no
YES	yes

DOMAIN NAME value list - electric kvar

DEFINITION Allowable input values for kvar.

VALUE	DEFINITION
10	10 kvar
100	100 kvar
1000	1000 kvar
10000	10000 kvar
112.5	112.5 kvar
112_5	112.5 kvar
1250	1250 kvar
14K20K	14000 20000 kvar

15	15 kvar
150	150 kvar
1500	1500 kvar
167	167 kvar
16K22K	16000 22000 kvar
225	225 kvar
25	25 kvar
250	250 kvar
300	300 kvar
333	333 kvar
37.5	37.5 kvar
37_5	37.5 kvar
3750	3750 kvar
45	45 kvar
50	50 kvar
500	500 kvar
5000	5000 kvar
55	55 kvar
7.5	7.5 kvar
7_5	7.5 kvar
75	75 kvar
750	750 kvar
775	775 kvar
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME value list - hertz

DEFINITION Allowable input values for hertz (electrical frequency).

VALUE	DEFINITION
OTHER	other
TBD	to be determined
UNKNOWN	unknown

DOMAIN NAME value list - pipe diameter

DEFINITION Allowable input values for pipe diameter.

VALUE	DEFINITION
0.25	1/4 inch (0.25 inch)
0.5	1/2 inch (0.5 inch)
0.75	3/4 inch (0.75 inch)
0_25	1/4 inch (0.25 inch)
0_5	1/2 inch (0.5 inch)
0_75	3/4 inch (0.75 inch)
1	1inch (1.0 inch)
1.25	1 1/4 inch (1.25 inches)
1.5	1 1/2 inch (1.5 inches)
1.75	1 3/4 inch (1.75 inches)
1_25	1 1/4 inch (1.25 inches)
1_5	1 1/2 inch (1.5 inches)
1_75	1 3/4 inch (1.75 inches)
10	10 inch (10.0 inches)
12	12 Inch (12.0 inches)
2	2 inch (2.0 inches)
2.5	2 1/2 inch (2.5 inches)
2_5	2 1/2 inch (2.5 inches)
20	20 Inch (20.0 inches)

3	3 inch (3.0 inches)
4	4 inch (4.0 inches)
6	6 inch (6.0 inches)
8	8 inch (8.0 inches)
OTHER	other
TBD	to be determined

DOMAIN NAME value list - sic

DEFINITION A local list of subspecialty codes for vendors.

VALUE	DEFINITION
NA	not applicable
UNKNOWN	unknown

DOMAIN NAME value list - voltage

DEFINITION Allowable input values for voltage.

VALUE	DEFINITION
110V	110 volts
115000V	115,000 volts
115V	115 volts
120_240V	120/240 volts
12000V	12,000 volts
12000Y_6930V	12,000Y/6,930 volts
120V	120 volts
12470V	12,470 volts
12470Y_7200V	12,470Y/7,200 volts
12V	12 volts
13200V	13,200 volts
13200Y_7620V	13,200Y/7,620 volts
138000V	138,000 volts
15000V	15,000 volts

15930V	15,930 volts
19920V	19,920 volts
20780V	20,780 volts
20780Y_12000V	20,780Y/12,000 volts
208V	208 volts
208Y_120V	208Y/120 volts
220V	220 volts
22860V	22,860 volts
22860Y_13200V	22,860Y/13,200 volts
230000V	230,000 volts
230V	230 volts
2400V	2,400 volts
240V	240 volts
24940V	24,940 volts
24940Y_14400V	24,940Y/14,400 volts
24V	24 volts
27600V	27,600 volts
27600Y_15930V	27,600Y/15,930 volts
277V	277 volts
345000V	345,000 volts
34500V	34,500 volts
34500Y_19920V	34,500Y/19,920 volts
400V	400 volts
4160V	4,160 volts
4160Y_2400V	4,160Y/2400 volts
43800V	43,800 volts
460V	460 volts
4800V	4,800 volts

Utilities (domain)

480V	480 volts
480Y_277V	480Y/277 volts
48V	48 volts
500000V	500,000 volts
5000V	5,000 volts
52V	52 volts
600V	600 volts
69000V	69,000 volts
7200V	7,200 volts
7620V	7,620 volts
765000V	765,000 volts
7970V	7,970 volts
8320V	8,320 volts
OTHER	other
TBD	to be determined
UNKNOWN	unknown